

Substitute for form 1449A/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number <u>09/770,340 10/666,416</u> Filing Date <u>January 26, 2001</u> <u>June 7, 2001</u> First Named Inventor <u>Kosaraju Krishna MOHAN</u> Group Art Unit <u>1772</u> Examiner Name <u>Chris Bruenjes</u> Attorney Docket No. <u>54821.P1</u>	
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U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Office ²	Number ³				
CB		JA	2669767	Oji Paper Co.	1997		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (In CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

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				Filing Date	January 26, 2001 September 19, 2001
				First Named Inventor	Kosaraju Krishna MOHAN
				Group Art Unit	1772
				Examiner Name	Chris Bruenjes
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Application Number	09/770,340 10/666,416
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Group Art Unit	1772
Examiner Name	Chris Bruenjes
Attorney Docket No.	54821.P102

U.S. PATENT DOCUMENTS

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Group Art Unit	1772
Examiner Name	Chris Bruenjes

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U.S. PATENT DOCUMENTS

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CB		3,293,114	D. Kenaga, et al.	12/20/1966	—
CB		3,357,322	L. D. Gill	01/12/1965	—
CB		3,468,467	S. W. Amberg	09/23/1969	—
CB		3,556,934	F. Meyer	01/19/1971	—
CB		3,615,972	D. Morehouse, et al.	10/26/1971	—
CB		3,779,951	R. Streu	12/18/1973	—
CB		3,785,254	Robert H. Mann	01/15/1974	—
CB		3,941,634	H. Nisser, et al.	03/02/1976	—
CB		4,051,277	R. M. Wilkinson	09/27/1977	—
CB		4,133,688	W. H. Sack	01/09/1979	—
CB		4,233,325	G. Slangan	11/11/1980	—

FOREIGN PATENT DOCUMENTS

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CB		4,237,171	Fred C. Laage	12/02/1980	—
CB		4,241,125	R. G. Canning	12/23/1980	—
CB		4,435,344	A. Iioka	03/06/1984	—
CB		4,451,585	B. Andersson	05/29/1984	—
CB		4,483,889	B. Andersson	11/20/1984	—
CB		4,548,349	R. Tunberg	10/22/1985	—
CB		4,581,285	E. Mahefkey, Jr.	04/08/1986	—
CB		4,617,223	D. F. Hiscock	10/14/1986	—
CB		4,619,734	I. Andersson	10/28/1986	—
CB		4,777,930	M. E. Hartz	10/18/1988	—
CB		4,781,243	N. DeVogel	11/01/1988	—
CB		4,836,400	W. Chaffey, et al.	06/06/1989	—

FOREIGN PATENT DOCUMENTS

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U.S. PATENT DOCUMENTS

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CB		4,898,752	G. A. Cavagna	02/06/1990	—
CB		4,902,722	G. E. Melber	02/20/1990	—
CB		4,946,737	C. M. Lindeman, et al.	08/07/1990	—
CB		4,982,722	W. Burk Wyatt	01/08/1991	—
CB		5,092,485	T. T. Lee	03/03/1992	—
CB		5,096,650	D. J. Renna	03/17/1992	—
CB		5,125,996	B. C. Campbell, et al.	06/30/1992	—
CB		5,145,107	V. K. Silver	09/08/1992	—
CB		5,226,585	R. Varano	07/13/1993	—
CB		5,363,982	C. E. Sadlier	11/15/1994	—
CB		5,370,814	I. O. Salyer	12/06/1994	—
CB		5,424,519	G. Salee	06/13/1995	—

FOREIGN PATENT DOCUMENTS

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Group Art Unit	1772		
Examiner Name	Chris Bruenjes		

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CB	—	5,454,471	J. Norvell	10/03/1995	—
	—	5,477,917	I. Salyer	12/26/1995	—
	—	5,478,988	T. E. Hughes, et al.	12/26/1995	—
	—	5,490,631	A. Iioka	02/13/1996	—
	—	5,499,460	Y. G. Bryant	03/19/1996	—
	—	5,520,103	D. Zielinski, et al.	05/28/1996	—
	—	5,601,744	Wayne D. Baldwin	02/11/1997	—
	—	5,637,389	David Colvin, et al.	06/10/1997	—
	—	5,705,242	P. J. Andersen	01/06/1998	—
	—	5,759,624	Douglas Neale, et al.	06/02/1998	—
	—	5,792,398	Bengt Andersson	08/11/1998	—
	—	5,880,435	William M. Bostic	03/09/1999	—
	—	5,884,006	S. Frohlich, et al.	03/16/1999	—
CB	—	5,952,068	D. Neale, et al.	09/14/1999	—

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CB	—	Tappi/ May 1972, Vol. 55, No. 5, pg. 770-771	—
CB	—	Tappi/ December 1973, Vol. 56, No. 12, Pg. 158-160	—
CB	—	"The Use of Microspheres to Improve Paper Properties", by Soderberg, Paper Technology, August 1989, pgs. VIII/17-VII/21	—

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CB	—	"XPANCEL®", An Introduction, a publication from Expancel, Box 13000, S0-850 13 Sundsvall, SWEDEN	—
CB	—	"The Application of Microspheres for the Production of High Bulk Papers", by M. Baumeister, Das Papier, Vol. 26, no. 10A: 716-720 (1972)	—
CB	—	"Microspheres find use as fiber replacement in low-density board", by David O. Bowen, Pulp & Paper November 1976, pg. 126-127	—
CB	—	EXPANCEL ® Expandable Microspheres in Paper and Board, by Mark Lunabba, KemaNord Plast AB, Sector Microspheres, Box 13000, S-850 13 Sundsvall, SWEDEN	—
CB	—	"Expandable Microspheres in Board", World Pulp & Paper Technology, pgs. 143-145	—
CB	—	"Foams on the Cutting Edge", by Ray Erikson, January 1999	—

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